CAS ONLINE PRINTOUT

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     (FILE 'HOME' ENTERED AT 07:26:05 ON 12 FEB 2008)

     FILE 'REGISTRY' ENTERED AT 07:26:13 ON 12 FEB 2008
L1              STRUCTURE UPLOADED
L2            1 S L1
L3           27 S L1 FUL

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L4           14 S L3

=> d l1
L1 HAS NO ANSWERS
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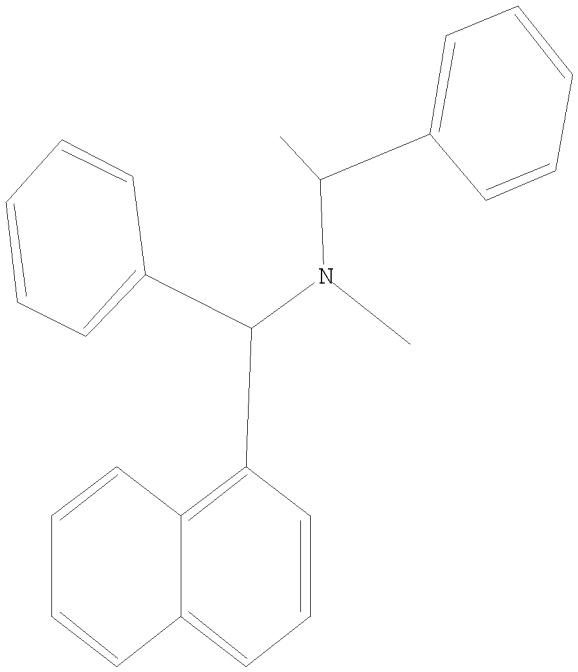

Structure attributes must be viewed using STN Express query preparation.

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L4   ANSWER 1 OF 14  CAPLUS  COPYRIGHT 2008 ACS on STN
AN   2007:968722  CAPLUS
DN   147:322844
TI   Process for obtaining enantiomers of duloxetine precursors via
     ligand-catalyzed enantioselective addition reaction
IN   Torrens Jover, Antoni; Buschmann, Helmut Henrich; Dahmen, Stefan; Lormann,
     Matthias
PA   Laboratorios del Dr. Esteve, S.A., Spain
SO   Eur. Pat. Appl., 23pp.
     CODEN: EPXXDW
DT   Patent
LA   English
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CAS ONLINE PRINTOUT

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 1826204	A1	20070829	EP 2006-380038	20060228
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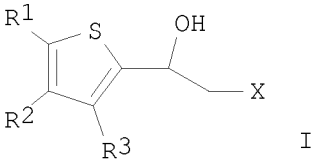
	WO 2007098923	A1	20070907	WO 2007-EP1674	20070227
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SV, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW				
	RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
PRAI	EP 2006-380038	A	20060228		

OS MARPAT 147:322844

GI



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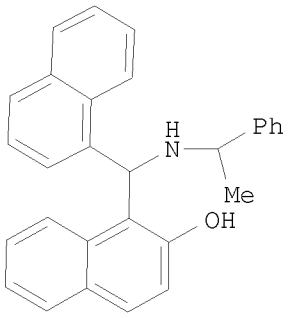


II

AB The present invention is directed to a process for the preparation of an enantiomerically enriched thiophene I, wherein wherein, R1-R3 are each independently selected from hydrogen, halogen, substituted or unsubstituted lower alkyl or substituted or unsubstituted aryl; X is -C(=O)-Z or -Y, wherein -Y is selected from -CH2-OR4, -CH2-halogen or -CH2-NR6R7; wherein Z is selected from -NR6R7 or -OR5, wherein R5 is selected from hydrogen, substituted or unsubstituted lower alkyl or ester activating group; R4 is selected from hydrogen, hydroxyl protecting group or hydroxyl activating group; R6 and R7 are each independently selected from hydrogen, amino protecting group, amido protecting group or substituted or unsubstituted lower alkyl; which comprises an enantioselective addition with a thienyl zinc reagent, in the presence of a chiral ligand. Thus, ligand II was claimed to be used as catalyst for enantioselective addition of thiophene-zinc with aldehydes in preparation of enantiomers of duloxetine precursors (no data).

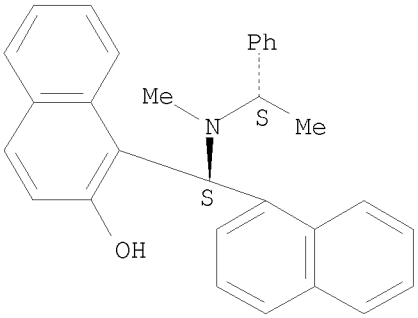
IT 845294-25-9
RL: CAT (Catalyst use); USES (Uses)
(process for obtaining enantiomers of duloxetine precursors via ligand-catalyzed enantioselective addition reaction)

RN 845294-25-9 CAPLUS

CN 2-Naphthalenol, 1-[(S)-[methyl[(1S)-1-phenylethyl]amino]-1-

naphthalenylmethyl]- (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



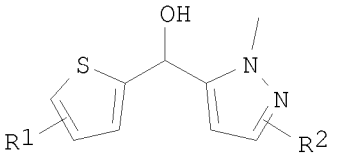
RE.CNT 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 2 OF 14 CAPLUS COPYRIGHT 2008 ACS on STN
AN 2006:606202 CAPLUS
DN 145:83323
TI Process for preparation of chiral methylpyrazolylthienylmethanols from methylpyrazolecarboxaldehydes and thienylzinc reagents in the presence of chiral ligands.
IN Torrens Jover, Antoni; Buschmann, Helmut H.; Dahmen, Stefan; Lormann, Matthias
PA Laboratorios del Dr. Esteve, S.A., Spain
SO PCT Int. Appl., 31 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2006063860	A2	20060622	WO 2005-EP13826	20051216
	WO 2006063860	A3	20061116		
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
	RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	EP 1671968	A1	20060621	EP 2004-380265	20041217
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, BA, HR, IS, YU				
	US 2006135787	A1	20060622	US 2005-41638	20050124
	US 7078531	B2	20060718		
	EP 1828175	A2	20070905	EP 2005-819893	20051216
	R: ES				
PRAI	EP 2004-380265	A	20041217		
	US 2005-41638	A	20050124		

CAS ONLINE PRINTOUT

EP 2005-77141 A 20050920
WO 2005-EP13826 W 20051216
OS CASREACT 145:83323; MARPAT 145:83323
GI



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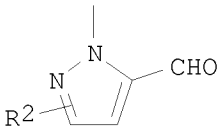


II

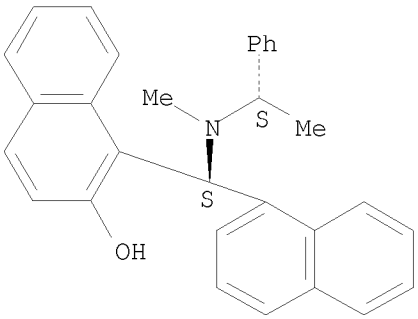
AB Title compds. (I; R1, R2 = H, halo, alkyl, aryl), were prepared by reaction of methylpyrazolecarboxaldehydes (II; R2 as above) with the corresponding thienylzinc reagents in the presence of chiral ligands. Thus, 2-aminoethyldithien-2-ylboronate, (S)-2-piperidinyl-1,1,2-triphenylethanol, Et2Zn, and 2-methyl-2H-pyrazole-3-carboxaldehyde (preparation given) were stirred together for ≥12 h in PhMe at -10° to give (2-methyl-2H-pyrazole-3-yl)thiophen-2-ylmethanol in 51% yield and 70% enantiomeric excess.

IT 845294-25-9
RL: CAT (Catalyst use); USES (Uses)
(preparation of chiral methylpyrazolylthienylmethanols from methylpyrazolecarboxaldehydes and thienylzinc reagents in the presence of chiral ligands)

RN 845294-25-9 CAPLUS

CN 2-Naphthalenol, 1-[(S)-[methyl[(1S)-1-phenylethyl]amino]-1-naphthalenylmethyl]- (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



L4 ANSWER 3 OF 14 CAPLUS COPYRIGHT 2008 ACS on STN

AN 2006:605382 CAPLUS

DN 145:83321

TI Process for preparation of chiral (2-methyl-2H-pyrazol-3-yl)phenylmethanol from 2-methyl-2H-pyrazole-3-carboxaldehyde and a phenylzinc reagent in the presence of a chiral ligand.

IN Torrens Jover, Antoni; Buschmann, Helmut H.; Dahmen, Stefan; Lormann, Matthias

PA Laboratorios del Dr. Esteve, S.A., Spain

SO PCT Int. Appl., 31 pp.
CODEN: PIXXD2

DT Patent

CAS ONLINE PRINTOUT

LA English
FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2006063861	A1	20060622	WO 2005-EP13827	20051216
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	RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	EP 1671953	A1	20060621	EP 2004-380266	20041217
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, BA, HR, IS, YU				
	US 2006135788	A1	20060622	US 2005-41637	20050124
	US 7109349	B2	20060919		
	EP 1838678	A1	20071003	EP 2005-822912	20051216
	R: ES				
PRAI	EP 2004-380266	A	20041217		
	US 2005-41637	A	20050124		
	EP 2005-77140	A	20050920		
	WO 2005-EP13827	W	20051216		

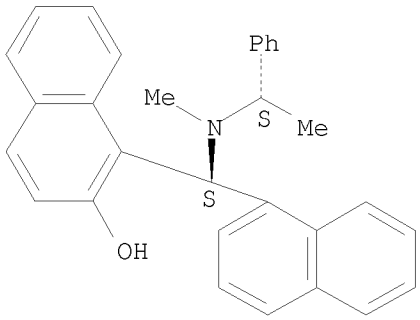
OS CASREACT 145:83321

AB A process for preparation of enantiomerically enriched (2-methyl-2H-pyrazol-3-yl)phenylmethanol comprises reaction of 2-methyl-2H-pyrazole-3-carboxaldehyde with a phenylzinc reagent in the presence of a chiral ligand. Thus, (S)-2-piperidinyl-1,1,2-triphenylethanol, Ph3B.NH3, Et2Zn, and 2-methyl-2H-pyrazole-3-carboxaldehyde were stirred together in PhMe for 12 h at 10° to give 79% (R)-(2-methyl-2H-pyrazol-3-yl)phenylmethanol in 93% enantiomeric excess.

IT 845294-25-9
RL: CAT (Catalyst use); USES (Uses)
(preparation of chiral (methylpyrazolyl)phenylmethanol from methylpyrazolecarboxaldehyde and a phenylzinc reagent in the presence of a chiral ligand)

RN 845294-25-9 CAPLUS
CN 2-Naphthalenol, 1-[(S)-[methyl[(1S)-1-phenylethyl]amino]-1-naphthalenylmethyl]- (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



CAS ONLINE PRINTOUT

RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 4 OF 14 CAPLUS COPYRIGHT 2008 ACS on STN
AN 2006:597417 CAPLUS
DN 145:83320
TI Process for preparation of chiral (2-methyl-2H-pyrazole-3-yl)thien-2-ylmethanols from 2-methyl-2H-pyrazole-3-carboxaldehydes and thienylzinc reagents in the presence of chiral ligands.
IN Torrens Jover, Antoni; Buschmann, Helmut H.; Dahmen, Stefan; Lormann, Matthias
PA Laboratorios del Dr. Esteve, S. A., Spain
SO Eur. Pat. Appl., 16 pp.
CODEN: EPXXDW
DT Patent
LA English
FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 1671968	A1	20060621	EP 2004-380265	20041217
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, BA, HR, IS, YU				
	US 2006135787	A1	20060622	US 2005-41638	20050124
	US 7078531	B2	20060718		
	WO 2006063860	A2	20060622	WO 2005-EP13826	20051216
	WO 2006063860	A3	20061116		
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
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	EP 1828175	A2	20070905	EP 2005-819893	20051216
	R: ES				
PRAI	EP 2004-380265	A	20041217		
	US 2005-41638	A	20050124		
	EP 2005-77141	A	20050920		
	WO 2005-EP13826	W	20051216		

OS CASREACT 145:83320; MARPAT 145:83320
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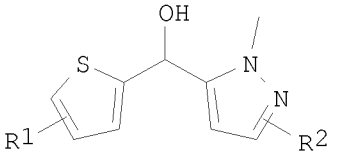

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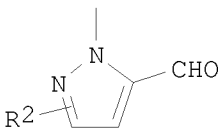


II

AB Title compds. (I; R1, R2 = H, halo, alkyl, aryl), were prepared by reaction

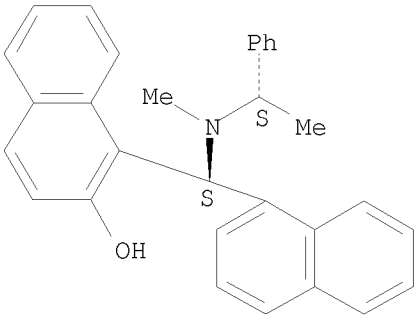
of aldehydes (II; R2 as above) with thienylzinc reagents in the presence of chiral ligands. Thus, 2-aminoethyldithien-2-ylborinate, (S)-2-piperidinyl-1,1,2-triphenylethanol, diethylzinc, and 2-methyl-2H-pyrazole-3-carboxaldehyde were stirred ≥12 h in PhMe at -10° to give 51% (2-methyl-2H-pyrazole-3-yl)thien-2-ylmethanol in 51% yield and 70% enantiomeric excess.

IT 845294-25-9
RL: CAT (Catalyst use); USES (Uses)
(preparation of chiral methylpyrazolyl thienyl methanols from methylpyrazolecarboxaldehydes and thienylzinc reagents in the presence of chiral ligands)

RN 845294-25-9 CAPLUS

CN 2-Naphthalenol, 1-[(S)-[methyl[(1S)-1-phenylethyl]amino]-1-naphthalenylmethyl]- (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



RE.CNT 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 5 OF 14 CAPLUS COPYRIGHT 2008 ACS on STN
AN 2006:596544 CAPLUS
DN 145:83318
TI Process for preparation of (R)-(2-methyl-2H-pyrazol-3-yl)phenylmethanol from 2-methyl-2H-pyrazole-3-carboxaldehyde and a phenylzinc reagent in the presence of a chiral ligand.
IN Torrens Jover, Antoni; Buschmann, Helmuth H.; Dahmen, Stefan; Lormann, Matthias
PA Laboratorios del Dr. Esteve, S. A., Spain
SO Eur. Pat. Appl., 14 pp.
CODEN: EPXXDW
DT Patent
LA English
FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 1671953	A1	20060621	EP 2004-380266	20041217
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, PL, SK, BA, HR, IS, YU				
	US 2006135788	A1	20060622	US 2005-41637	20050124
	US 7109349	B2	20060919		
	WO 2006063861	A1	20060622	WO 2005-EP13827	20051216
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX,				

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SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC,
VN, YU, ZA, ZM, ZW
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE,
IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ,
CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH,
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KG, KZ, MD, RU, TJ, TM

EP 1838678 A1 20071003 EP 2005-822912 20051216
R: ES

PRAI EP 2004-380266 A 20041217
US 2005-41637 A 20050124
EP 2005-77140 A 20050920
WO 2005-EP13827 W 20051216

OS CASREACT 145:83318

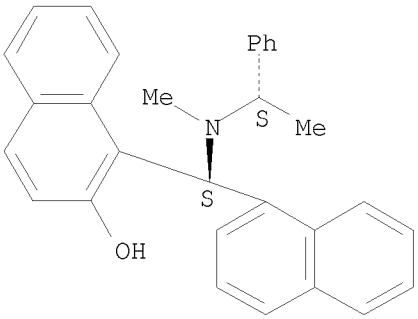
AB Enantiomerically enriched (R)-(2-methyl-2H-pyrazol-3-yl)phenylmethanol (I) was prepared by reaction of 2-methyl-2H-pyrazole-3-carboxaldehyde (II) with a phenylzinc reagent in the presence of a chiral ligand. Thus, (S)-2-piperidinyl-1,1,2-triphenylethanol, Ph3B.NH3, Et2Zn, and II (preparation given) were stirred together in PhMe at 10° for ≥12 to give I.

IT 845294-25-9
RL: CAT (Catalyst use); USES (Uses)
(preparation of methylpyrazolylphenylmethanol from methylpyrazolecarboxaldehyde and a phenylzinc reagent in the presence of a chiral ligand)

RN 845294-25-9 CAPLUS

CN 2-Naphthalenol, 1-[(S)-[methyl[(1S)-1-phenylethyl]amino]-1-naphthalenylmethyl]- (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 6 OF 14 CAPLUS COPYRIGHT 2008 ACS on STN

AN 2006:434704 CAPLUS

DN 146:62660

TI Synthesis of a new kind of chiral alkylaminobenzylphenol/naphthol ligands

AU Li, Zhi-Min; Sun, Yan; Shen, Xiu-Min; Ai, Lin; Zhang, Cong

CS College of Chemistry, Beijing Normal University, Beijing, 100875, Peop. Rep. China

SO Youji Huaxue (2006), 26(4), 465-469
CODEN: YCHHDX; ISSN: 0253-2786

PB Youji Huaxue Bianjibu

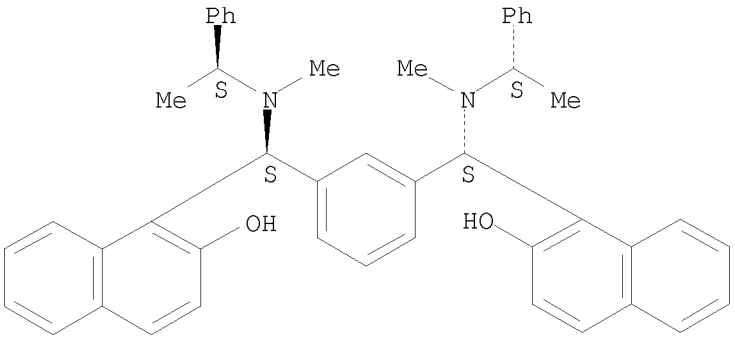
DT Journal

LA Chinese

CAS ONLINE PRINTOUT

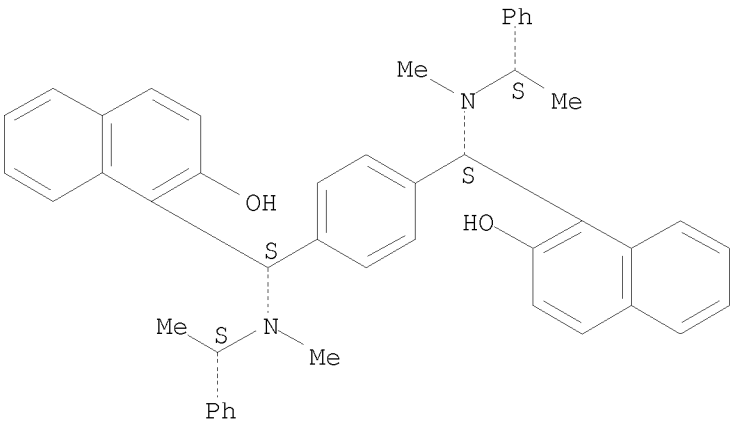
OS CASREACT 146:62660
AB A new kind of chiral alkylaminobenzylphenol/naphthalenol derivs. was stereoselectively synthesized with moderate yield for the first time through Mannich reaction. An example compound thus prepared were (+)-3-[(S)-phenyl[[(1S)-1-phenylethyl]amino]methyl]-1,2-benzenediol and 1,1'-[1,3-phenylenebis[(S)-[[(1S)-1-phenylethyl]amino]methylene]]bs[2-naphthalenol]. Their structures were characterized by elemental anal., IR, 1H NMR, 13C NMR and MS spectra, two of which were identified through X-ray crystallog. study.
IT 878674-97-6P, 1,1'-[1,3-Phenylenebis[(S)-[methyl[(1S)-1-phenylethyl]amino]methylene]]bis[2-naphthalenol] 878674-98-7P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of chiral (phenylene)bis[dihydro[(phenyl)ethyl]naphth[1,2-e][1,3]oxazine] and [phenylenebis[(S)-[[(phenyl)ethyl]amino]methylene]]bis[naphthalenol] derivs.)
RN 878674-97-6 CAPLUS
CN 2-Naphthalenol, 1,1'-[1,3-phenylenebis[(S)-[methyl[(1S)-1-phenylethyl]amino]methylene]]bis- (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



RN 878674-98-7 CAPLUS
CN 2-Naphthalenol, 1,1'-[1,4-phenylenebis[(S)-[methyl[(1S)-1-phenylethyl]amino]methylene]]bis- (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

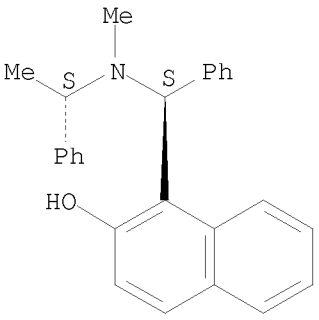


L4 ANSWER 7 OF 14 CAPLUS COPYRIGHT 2008 ACS on STN

CAS ONLINE PRINTOUT

AN 2006:208472 CAPLUS
DN 144:432284
TI Catalytic asymmetric addition reactions leading to carbon-carbon bond formation: phenyl and alkenyl transfer to aldehydes and alkynylation of α-imino esters
AU Ji, Jian-Xin; Wu, Jing; Xu, Lijin; Yip, Chiu-Wing; Lam, Kim Hung; Chan, Albert S. C.
CS Department of Applied Biology and Chemical Technology, Hong Kong Polytechnic University, Hong Kong, Peop. Rep. China
SO Pure and Applied Chemistry (2006), 78(2), 267-274
CODEN: PACHAS; ISSN: 0033-4545
PB International Union of Pure and Applied Chemistry
DT Journal
LA English
OS CASREACT 144:432284
AB Optically active tertiary aminonaphthol ligands were obtained by a new, convenient procedure and were found to catalyze the enantioselective alkenyl and Ph transfer to aldehydes in high yields and excellent enantiomeric excesses (ee's). The catalytic asym. introduction of alkynyl functionality to α-amino acid derivs. was realized by the direct addition of terminal alkynes to α-imino ester in the presence of chiral copper(I) complex under mild reaction conditions.
IT 361554-36-1P 845294-25-9P 845294-26-0P
RL: CAT (Catalyst use); SPN (Synthetic preparation); PREP (Preparation); USES (Uses)
(asym. alkenylation and phenylation of aldehydes catalyzed by chiral tertiary aminonaphthol ligands)
RN 361554-36-1 CAPLUS
CN 2-Naphthalenol, 1-[(S)-[methyl[(1S)-1-phenylethyl]amino]phenylmethyl]- (CA INDEX NAME)

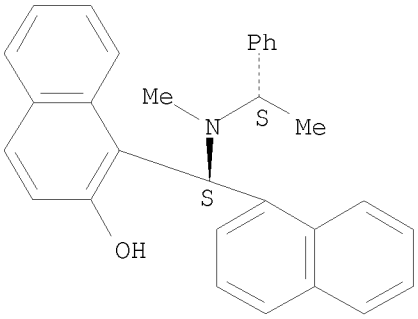
Absolute stereochemistry.



RN 845294-25-9 CAPLUS
CN 2-Naphthalenol, 1-[(S)-[methyl[(1S)-1-phenylethyl]amino]-1-naphthalenylmethyl]- (CA INDEX NAME)

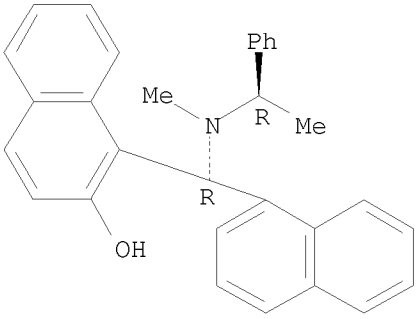
Absolute stereochemistry. Rotation (+).

CAS ONLINE PRINTOUT



RN 845294-26-0 CAPLUS
CN 2-Naphthalenol, 1-[(R)-[methyl[(1R)-1-phenylethyl]amino]-1-naphthalenylmethyl]- (CA INDEX NAME)

Absolute stereochemistry.



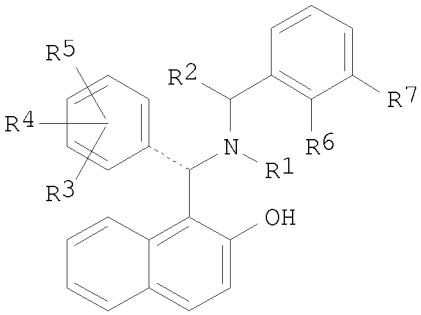
RE.CNT 28 THERE ARE 28 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 8 OF 14 CAPLUS COPYRIGHT 2008 ACS on STN
AN 2005:1026921 CAPLUS
DN 143:326097
TI Preparation and application of chiral tertiary aminoalkylnaphthols for enantioselective addition reactions to carbonyl compounds
IN Chan, Sun-Chi Albert; Ji, Jianxin
PA The Hong Kong Polytechnic University, Peop. Rep. China
SO PCT Int. Appl., 26 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

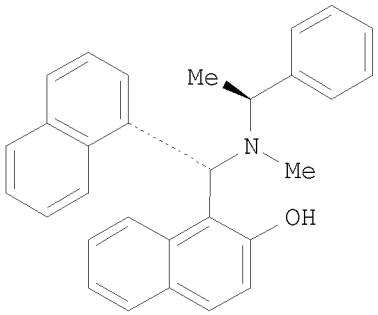
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2005087707	A1	20050922	WO 2005-CN291	20050310

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT,

RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG
AU 2005221745 A1 20050922 AU 2005-221745 20050310
CA 2556962 A1 20050922 CA 2005-2556962 20050310
EP 1727783 A1 20061206 EP 2005-714822 20050310
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR
CN 1930116 A 20070314 CN 2005-80007965 20050310
BR 2005008653 A 20070814 BR 2005-8653 20050310
KR 2007003921 A 20070105 KR 2006-718533 20060911
IN 2006CN03299 A 20070706 IN 2006-CN3299 20060912
PRAI US 2004-552785P P 20040312
WO 2005-CN291 W 20050310
OS CASREACT 143:326097; MARPAT 143:326097
GI



I



II

AB Chiral naphthols I [R1 = (un)substituted alkyl or aralkyl; R2 = (un)substituted alkyl; R3 and R4 = H, halo, alkyl, etc.; or R3 and R4 together form a fused 6-membered aromatic ring; R5 = H, alkyl, alkoxy, halo; R6 and R7 = H or combined together form a fused 6-membered aromatic ring with provisions] are prepared and applied as chiral ligands for enantioselective addition reactions of in situ generated arylzinc reactants to aryl aldehydes providing diarylmethanols in 90.5-99.0 %ee. For example, phenylboronic acid is reacted with di-Et zinc followed by addition of ligand II with a catalytic amount of dimethoxypolyethylene glycol, upon which the mixture is stirred for 15 min and cooled to -15° C and 2-chlorobenzaldehyde is added; following workup this provides (R)-(2-chlorophenyl)phenylmethanol.

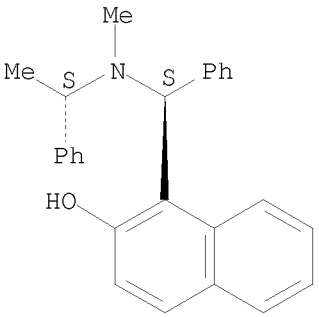
IT 361554-36-1
RL: CAT (Catalyst use); USES (Uses)
(preparation and application of chiral tertiary aminoalkylnaphthols for enantioselective addition reactions to carbonyl compds.)

RN 361554-36-1 CAPLUS

CN 2-Naphthalenol, 1-[(S)-[methyl[(1S)-1-phenylethyl]amino]phenylmethyl]- (CA INDEX NAME)

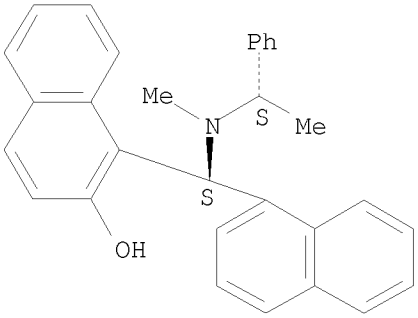
Absolute stereochemistry.

CAS ONLINE PRINTOUT



IT 845294-25-9P
RL: CAT (Catalyst use); SPN (Synthetic preparation); PREP (Preparation); USES (Uses)
(preparation and application of chiral tertiary aminoalkylnaphthols for enantioselective addition reactions to carbonyl compds.)
RN 845294-25-9 CAPLUS
CN 2-Naphthalenol, 1-[(S)-[methyl[(1S)-1-phenylethyl]amino]-1-naphthalenylmethyl]- (CA INDEX NAME)

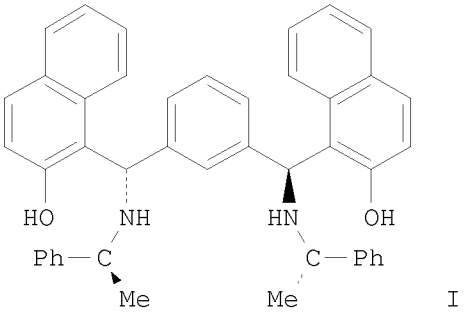
Absolute stereochemistry. Rotation (+).



RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 9 OF 14 CAPLUS COPYRIGHT 2008 ACS on STN
AN 2005:943469 CAPLUS
DN 144:292366
TI Exploration of chiral aminophenols and aminonaphthols with C2-symmetry
AU Sun, Yan; Li, Zhi Min; Shen, Xiu Min; Ma, Feng Nian; Zhang, Cong
CS Department of Chemistry, Beijing Normal University, Beijing, 100875, Peop. Rep. China
SO Chinese Chemical Letters (2005), 16(7), 879-882
CODEN: CCLEE7; ISSN: 1001-8417
PB Chinese Chemical Society
DT Journal
LA English
OS CASREACT 144:292366
GI

CAS ONLINE PRINTOUT



I

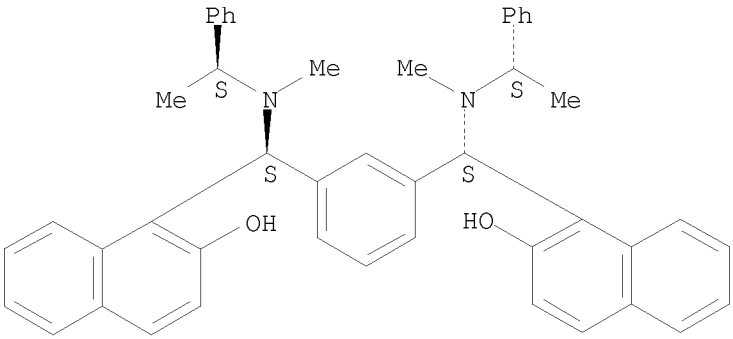
AB The exploration of C2-sym. chiral aminophenols and aminonaphthols is described. Seven new ligands have been successfully synthesized using Mannich reaction as a key step. Four of them have C2-symmetry and their structure has been fully characterized by means of NMR and X-ray crystallog. Crystallog. data for 2 compds. (e.g., I) are presented.

IT 878674-97-6P 878674-98-7P
RL: SPN (Synthetic preparation); PREP (Preparation)
(stereoselective preparation and C2-symmetry of chiral aminonaphthols via Mannich condensation of naphthol with benzenedialdehydes and (S)-α-methylbenzylamine followed by intramol. Mannich condensation with formaldehyde and reduction)

RN 878674-97-6 CAPLUS

CN 2-Naphthalenol, 1,1'-[1,3-phenylenebis[(S)-[methyl[(1S)-1-phenylethyl]amino]methylene]]bis- (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

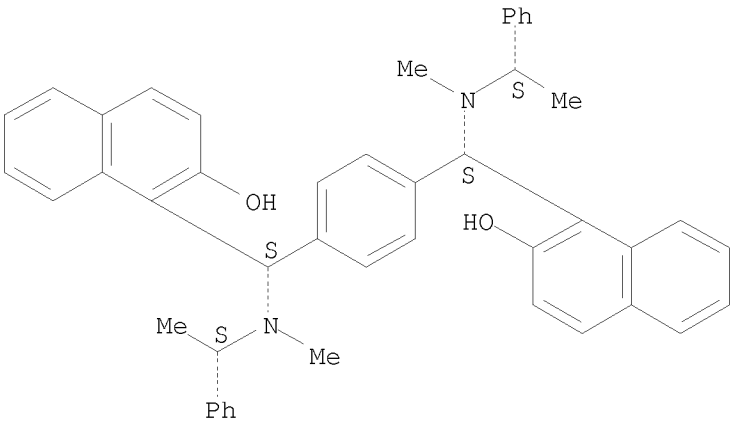


RN 878674-98-7 CAPLUS

CN 2-Naphthalenol, 1,1'-[1,4-phenylenebis[(S)-[methyl[(1S)-1-phenylethyl]amino]methylene]]bis- (CA INDEX NAME)

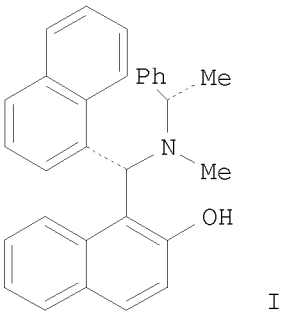
Absolute stereochemistry. Rotation (+).

CAS ONLINE PRINTOUT



RE.CNT 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 10 OF 14 CAPLUS COPYRIGHT 2008 ACS on STN
AN 2005:23577 CAPLUS
DN 142:240147
TI Highly Enantioselective Phenyl Transfer to Aryl Aldehydes Catalyzed by Easily Accessible Chiral Tertiary Aminonaphthol
AU Ji, Jian-Xin; Wu, Jing; Au-Yeung, Terry T.-L.; Yip, Chiu-Wing; Haynes, Richard K.; Chan, Albert S. C.
CS Open Laboratory of Chirotechnology of the Institute of Molecular Technology for Drug Discovery and Synthesis and Department of Applied Biology and Chemical Technology, The Hong Kong Polytechnic University, Hong Kong, Peop. Rep. China
SO Journal of Organic Chemistry (2005), 70(3), 1093-1095
CODEN: JOCEAH; ISSN: 0022-3263
PB American Chemical Society
DT Journal
LA English
OS CASREACT 142:240147
GI



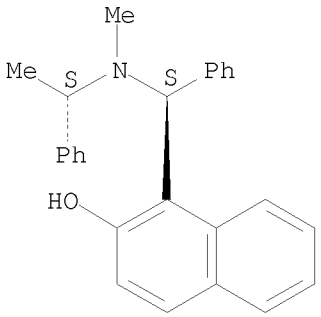
I

AB A new chiral tertiary aminonaphthol ligand I served as a highly efficient ligand for the asym. catalytic Ph transfer to aromatic aldehydes and a variety of chiral diarylmethanols was prepared in high ee values (ee up to 99%) and chemical yields. The straightforward syntheses of both I and its enantiomer provide an excellent opportunity for large-scale applications.

CAS ONLINE PRINTOUT

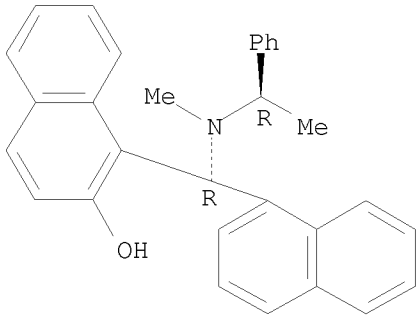
IT 361554-36-1 845294-26-0
RL: CAT (Catalyst use); USES (Uses)
(highly enantioselective Ph transfer to aryl aldehydes catalyzed by easily accessible chiral tertiary aminonaphthol)
RN 361554-36-1 CAPLUS
CN 2-Naphthalenol, 1-[(S)-[methyl[(1S)-1-phenylethyl]amino]phenylmethyl]- (CA INDEX NAME)

Absolute stereochemistry.



RN 845294-26-0 CAPLUS
CN 2-Naphthalenol, 1-[(R)-[methyl[(1R)-1-phenylethyl]amino]-1-naphthalenylmethyl]- (CA INDEX NAME)

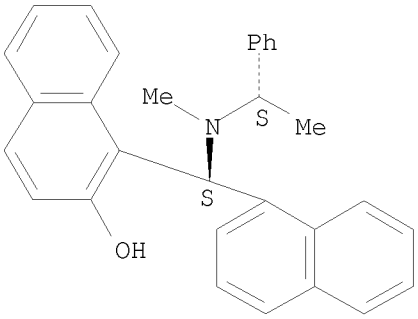
Absolute stereochemistry.



IT 845294-25-9P
RL: CAT (Catalyst use); SPN (Synthetic preparation); PREP (Preparation); USES (Uses)
(highly enantioselective Ph transfer to aryl aldehydes catalyzed by easily accessible chiral tertiary aminonaphthol)
RN 845294-25-9 CAPLUS
CN 2-Naphthalenol, 1-[(S)-[methyl[(1S)-1-phenylethyl]amino]-1-naphthalenylmethyl]- (CA INDEX NAME)

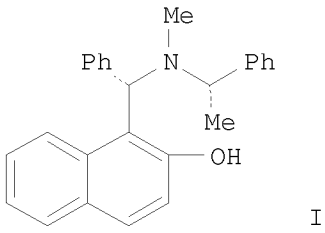
Absolute stereochemistry. Rotation (+).

CAS ONLINE PRINTOUT

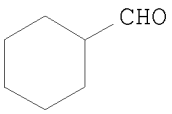


RE.CNT 30 THERE ARE 30 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

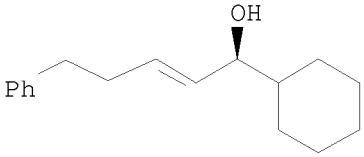
L4 ANSWER 11 OF 14 CAPLUS COPYRIGHT 2008 ACS on STN
AN 2003:53757 CAPLUS
DN 138:187379
TI A convenient, one-step synthesis of an optically active tertiary aminonaphthol and its applications in the highly enantioselective alkenylations of aldehydes
AU Ji, Jian-Xin; Qiu, Li-Qin; Yip, Chiu Wing; Chan, Albert S. C.
CS Open Laboratory of Chirotechnology of the Institute of Molecular Technology for Drug Discovery and Synthesis and Department of Applied Biology and Chemical Technology, Hong Kong Polytechnic University, Hong Kong, Peop. Rep. China
SO Journal of Organic Chemistry (2003), 68(4), 1589-1590
CODEN: JOCEAH; ISSN: 0022-3263
PB American Chemical Society
DT Journal
LA English
OS CASREACT 138:187379
GI



I



II



III

AB Optically active tertiary aminonaphthol I was obtained by a new, convenient Mannich-type reaction. I was found to catalyze the enantioselective alkenylation of various aldehydes, e.g. II, with high ee

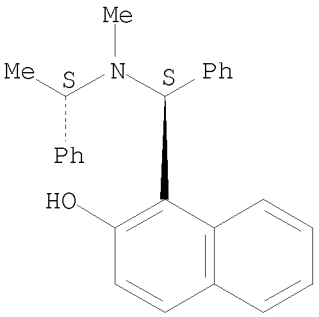
values. This synthetic strategy provides a practical method for the synthesis of chiral (E)-allyl alcs., e.g. III.

IT 361554-36-1P
RL: CAT (Catalyst use); SPN (Synthetic preparation); PREP (Preparation); USES (Uses)
(synthesis of an optically active tertiary aminonaphthol and its applications in enantioselective alkenylations of aldehydes)

RN 361554-36-1 CAPLUS

CN 2-Naphthalenol, 1-[(S)-[methyl[(1S)-1-phenylethyl]amino]phenylmethyl]- (CA INDEX NAME)

Absolute stereochemistry.



RE.CNT 13 THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 12 OF 14 CAPLUS COPYRIGHT 2008 ACS on STN

AN 2002:878734 CAPLUS

DN 138:320992

TI A practical stereoselective synthesis of secondary and tertiary aminonaphthols: chiral ligands for enantioselective catalysts in the addition of diethylzinc to benzaldehyde

AU Cimarelli, Cristina; Palmieri, Gianni; Volpini, Emanuela

CS Dipartimento di Scienze Chimiche, Universita di Camerino, Camerino, I-62032, Italy

SO Tetrahedron: Asymmetry (2002), 13(22), 2417-2426
CODEN: TASYE3; ISSN: 0957-4166

PB Elsevier Science Ltd.

DT Journal

LA English

OS CASREACT 138:320992

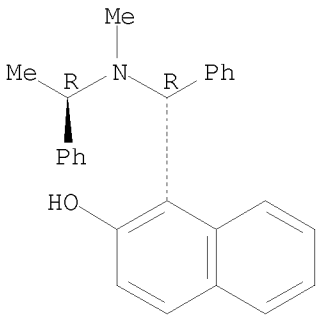
AB A practical procedure for the stereoselective synthesis of a wide group of functionalized aminoalkylnaphthols, using inexpensive starting materials, is reported. Selective N-alkylation was carried out by cyclization of secondary aminoalkylnaphthols with formaldehyde, followed by reduction or alkylation with organometallic reagents. The catalytic activity of this class of compds. was tested in the addition of diethylzinc to benzaldehyde, resulting in moderate to good enantioselectivities. It is noteworthy that the aminonaphthols obtained as the major diastereomer in the solvent free synthesis, have the best asym. induction properties in the alkylation reaction.

IT 479578-05-7P, (-)-1-[(R)-[Methyl[(1R)-1-phenylethyl]amino]phenylmethyl]-1-naphthalenol 512191-87-6P 512191-88-7P 512191-89-8P 512191-90-1P 512191-92-3P 512191-93-4P
RL: CAT (Catalyst use); SPN (Synthetic preparation); PREP (Preparation); USES (Uses)

(practical stereoselective synthesis of secondary and tertiary aminonaphthols as chiral ligands for enantioselective catalysts in addition of diethylzinc to benzaldehyde)

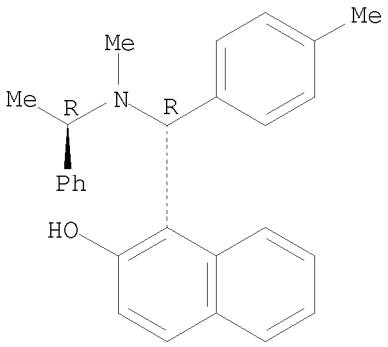
RN 479578-05-7 CAPLUS
CN 2-Naphthalenol, 1-[(R)-[methyl[(1R)-1-phenylethyl]amino]phenylmethyl]- (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



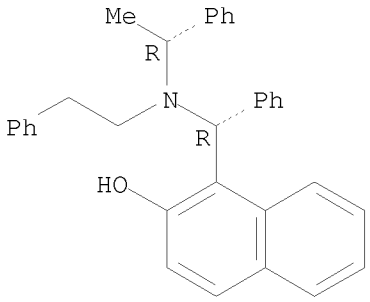
RN 512191-87-6 CAPLUS
CN 2-Naphthalenol, 1-[(R)-(4-methylphenyl)[methyl[(1R)-1-phenylethyl]amino]methyl]- (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



RN 512191-88-7 CAPLUS
CN 2-Naphthalenol, 1-[(R)-phenyl[[(1R)-1-phenylethyl](2-phenylethyl)amino]methyl]- (CA INDEX NAME)

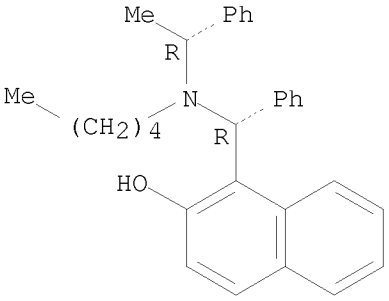
Absolute stereochemistry. Rotation (-).



CAS ONLINE PRINTOUT

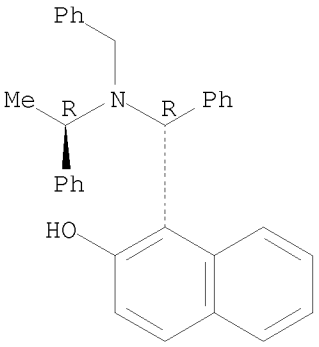
RN 512191-89-8 CAPLUS
CN 2-Naphthalenol, 1-[(R)-[pentyl[(1R)-1-phenylethyl]amino]phenylmethyl]-
(CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



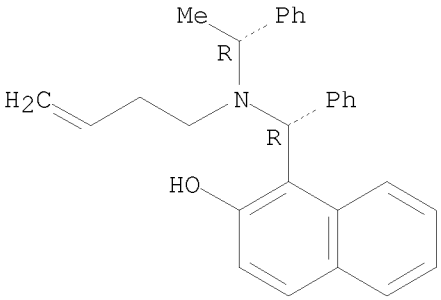
RN 512191-90-1 CAPLUS
CN 2-Naphthalenol, 1-[(R)-phenyl[[(1R)-1-phenylethyl](phenylmethyl)amino]meth
yl]- (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



RN 512191-92-3 CAPLUS
CN 2-Naphthalenol, 1-[(R)-[3-butenyl[(1R)-1-phenylethyl]amino]phenylmethyl]-
(9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

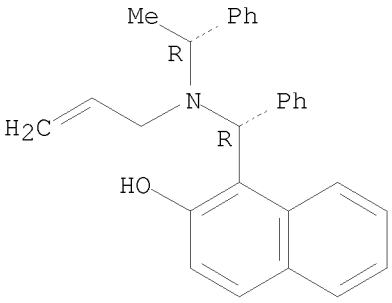


RN 512191-93-4 CAPLUS

CAS ONLINE PRINTOUT

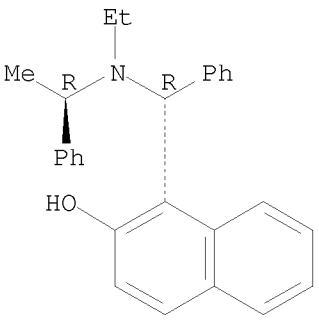
CN 2-Naphthalenol, 1-[(R)-phenyl[[(1R)-1-phenylethyl]-2-propenylamino]methyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



IT 512191-91-2P
RL: SPN (Synthetic preparation); PREP (Preparation)
(practical stereoselective synthesis of secondary and tertiary aminonaphthols as chiral ligands for enantioselective catalysts in addition of diethylzinc to benzaldehyde)
RN 512191-91-2 CAPLUS
CN 2-Naphthalenol, 1-[(R)-[ethyl[(1R)-1-phenylethyl]amino]phenylmethyl]- (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



RE.CNT 40 THERE ARE 40 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 13 OF 14 CAPLUS COPYRIGHT 2008 ACS on STN
AN 2002:585040 CAPLUS
DN 138:56012
TI Synthesis of a new type of chiral amino phosphine ligands for asymmetric catalysis
AU Wang, Yi; Li, Xin; Ding, Kuiling
CS Shanghai Institute of Organic Chemistry, State Key Laboratory of Organometallic Chemistry, Chinese Academy of Sciences, Shanghai, 200032, Peop. Rep. China
SO Tetrahedron: Asymmetry (2002), 13(12), 1291-1297
CODEN: TASYE3; ISSN: 0957-4166
PB Elsevier Science Ltd.
DT Journal
LA English
OS CASREACT 138:56012

CAS ONLINE PRINTOUT

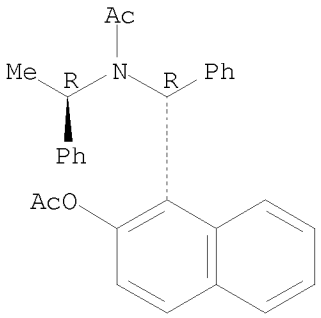
AB The synthesis of a new type of chiral amino phosphine ligands from an amino naphthol starting material derived by asym. 1-aminoalkylation of 2-naphthol with (R)-1-phenylethylamine and benzaldehyde is described. The asym. induction properties of the ligands in the Pd(0)-catalyzed allylic substitution of 1,3-diphenylprop-2-en-1-yl acetate with di-Me malonate also was studied, with near-quant. yields and ee of up to 72.2% of the product being obtained under the optimized reaction conditions.

IT 479578-09-1P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and base-catalyzed hydrolysis of)

RN 479578-09-1 CAPLUS

CN Acetamide, N-[(R)-[2-(acetyloxy)-1-naphthalenyl]phenylmethyl]-N-[(1R)-1-phenylethyl]- (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).

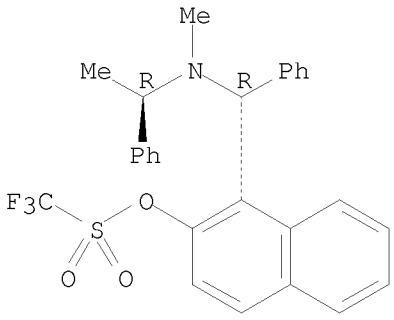


IT 479578-07-9P 479578-11-5P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and palladium-catalyzed coupling reaction with diarylphosphine oxides)

RN 479578-07-9 CAPLUS

CN Methanesulfonic acid, trifluoro-, 1-[(R)-[methyl[(1R)-1-phenylethyl]amino]phenylmethyl]-2-naphthalenyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).

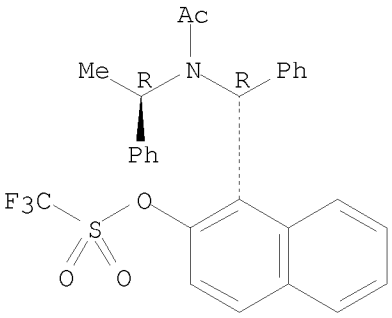


RN 479578-11-5 CAPLUS

CN Methanesulfonic acid, trifluoro-, 1-[(R)-[acetyl[(1R)-1-phenylethyl]amino]phenylmethyl]-2-naphthalenyl ester (9CI) (CA INDEX NAME)

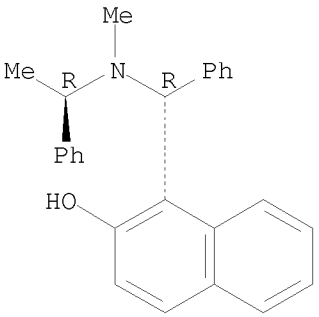
CAS ONLINE PRINTOUT

Absolute stereochemistry. Rotation (+).



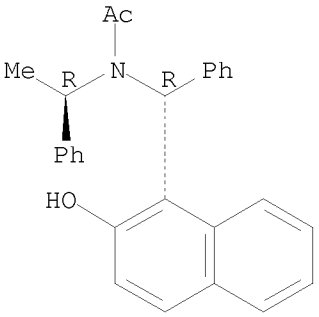
IT 479578-05-7P 479578-10-4P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and reaction with trifluoromethanesulfonic anhydride to give triflate derivative)
RN 479578-05-7 CAPLUS
CN 2-Naphthalenol, 1-[(R)-[methyl[(1R)-1-phenylethyl]amino]phenylmethyl]- (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



RN 479578-10-4 CAPLUS
CN Acetamide, N-[(R)-(2-hydroxy-1-naphthalenyl)phenylmethyl]-N-[(1R)-1-phenylethyl]- (CA INDEX NAME)

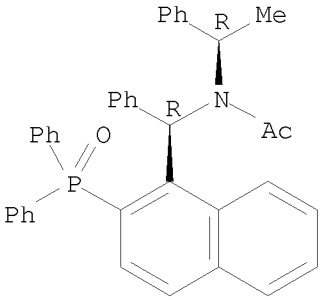
Absolute stereochemistry. Rotation (-).



IT 479578-12-6P 479578-16-0P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT

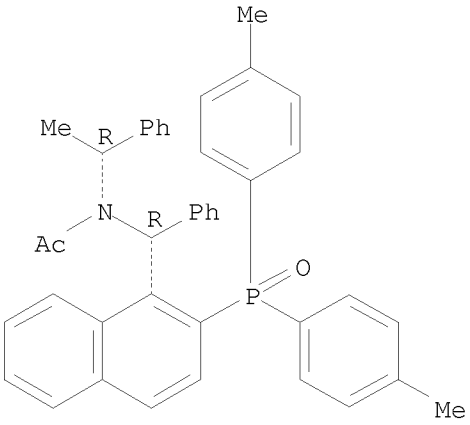
(Reactant or reagent)
(preparation and reduction of)
RN 479578-12-6 CAPLUS
CN Acetamide, N-[(R)-[2-(diphenylphosphinyl)-1-naphthalenyl]phenylmethyl]-N-[(1R)-1-phenylethyl]- (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



RN 479578-16-0 CAPLUS
CN Acetamide, N-[(R)-[2-[bis(4-methylphenyl)phosphinyl]-1-naphthalenyl]phenylmethyl]-N-[(1R)-1-phenylethyl]- (CA INDEX NAME)

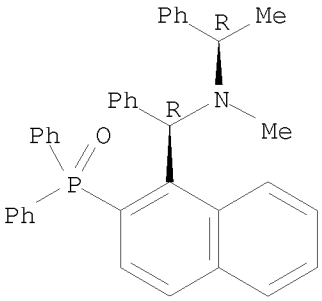
Absolute stereochemistry. Rotation (+).



IT 479578-08-0P 479578-13-7P 479578-14-8P
479578-17-1P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and silane reduction of)
RN 479578-08-0 CAPLUS
CN 1-Naphthalenemethanamine, 2-(diphenylphosphinyl)-N-methyl-α-phenyl-N-[(1R)-1-phenylethyl]-, (αR)- (CA INDEX NAME)

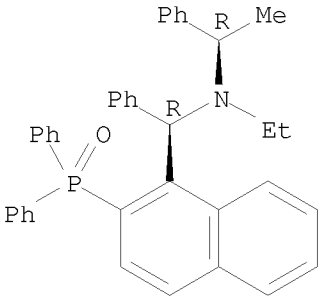
Absolute stereochemistry. Rotation (+).

CAS ONLINE PRINTOUT



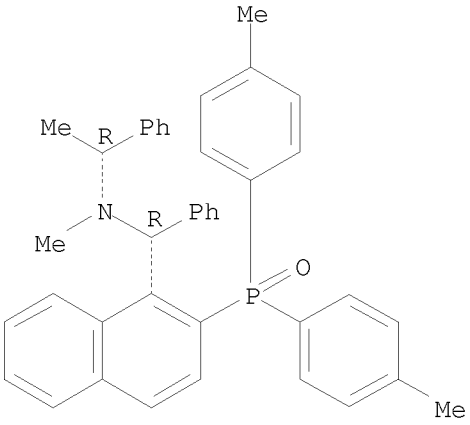
RN 479578-13-7 CAPLUS
CN 1-Naphthalenemethanamine, 2-(diphenylphosphinyl)-N-ethyl-α-phenyl-N-[(1R)-1-phenylethyl]-, (αR)- (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



RN 479578-14-8 CAPLUS
CN 1-Naphthalenemethanamine, 2-[bis(4-methylphenyl)phosphinyl]-N-methyl-α-phenyl-N-[(1R)-1-phenylethyl]-, (αR)- (CA INDEX NAME)

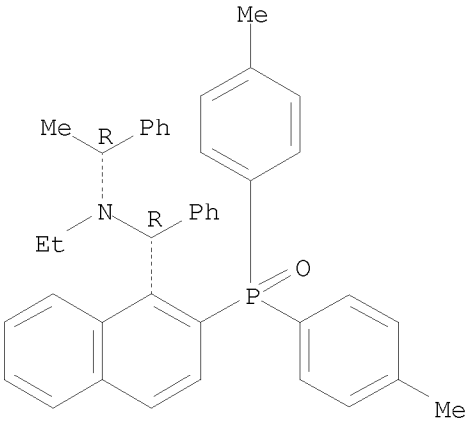
Absolute stereochemistry. Rotation (+).



RN 479578-17-1 CAPLUS
CN 1-Naphthalenemethanamine, 2-[bis(4-methylphenyl)phosphinyl]-N-ethyl-α-phenyl-N-[(1R)-1-phenylethyl]-, (αR)- (CA INDEX NAME)

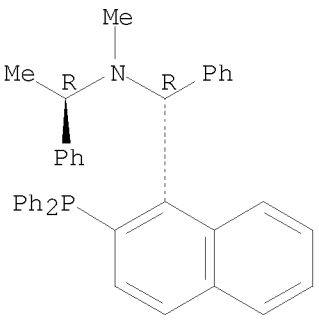
CAS ONLINE PRINTOUT

Absolute stereochemistry. Rotation (+).



IT 479578-06-8P 479578-15-9P 479578-18-2P
496770-88-8P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 479578-06-8 CAPLUS
CN 1-Naphthalenemethanamine, 2-(diphenylphosphino)-N-methyl-α-phenyl-N-[(1R)-1-phenylethyl]-, (αR)- (CA INDEX NAME)

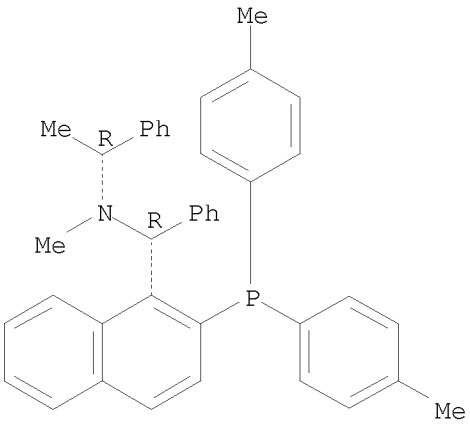
Absolute stereochemistry. Rotation (+).



RN 479578-15-9 CAPLUS
CN 1-Naphthalenemethanamine, 2-[bis(4-methylphenyl)phosphino]-N-methyl-α-phenyl-N-[(1R)-1-phenylethyl]-, (αR)- (CA INDEX NAME)

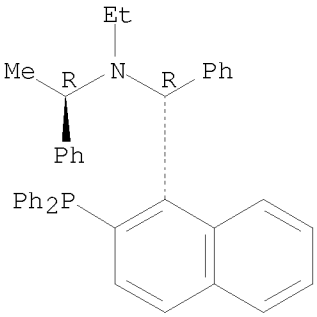
Absolute stereochemistry. Rotation (+).

CAS ONLINE PRINTOUT



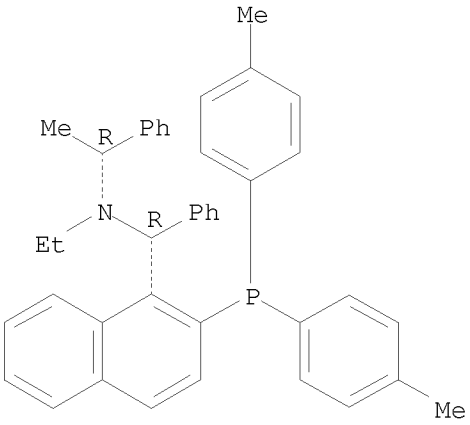
RN 479578-18-2 CAPLUS
CN 1-Naphthalenemethanamine, 2-(diphenylphosphino)-N-ethyl-α-phenyl-N-[(1R)-1-phenylethyl]-, (αR)- (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



RN 496770-88-8 CAPLUS
CN 1-Naphthalenemethanamine, 2-[bis(4-methylphenyl)phosphino]-N-ethyl-α-phenyl-N-[(1R)-1-phenylethyl]-, (αR)- (CA INDEX NAME)

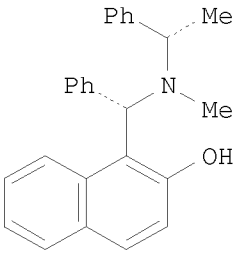
Absolute stereochemistry. Rotation (+).



CAS ONLINE PRINTOUT

RE.CNT 34 THERE ARE 34 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 14 OF 14 CAPLUS COPYRIGHT 2008 ACS on STN
AN 2001:534632 CAPLUS
DN 135:257008
TI The application of chiral aminonaphthols in the enantioselective addition of diethylzinc to aryl aldehydes
AU Liu, Da-Xue; Zhang, Li-Cheng; Wang, Quan; Da, Chao-Shan; Xin, Zhuo-Qun; Wang, Rui; Choi, Michael C. K.; Chan, Albert S. C.
CS Open Laboratory of Chirotechnology Department of Biochemistry and Molecular Biology School of Life Science, Lanzhou University, Lanzhou, 730000, Peop. Rep. China
SO Organic Letters (2001), 3(17), 2733-2735
CODEN: ORLEF7; ISSN: 1523-7060
PB American Chemical Society
DT Journal
LA English
OS CASREACT 135:257008
GI

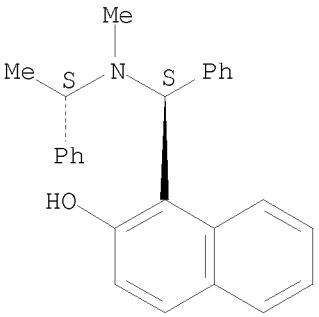


I

AB Optically active aminonaphthol I, obtained by condensation of 2-naphthol, benzaldehyde, and (S)-methylbenzylamine followed by N-methylation, was found to catalyze the enantioselective ethylation of aryl aldehydes RC6H4CHO (R = H, 4-Me, 4-Cl, 3-MeO, 4-O2N, 3-Me, 2-MeO, 4-MeO) to secondary alcs. with high enantioselectivities (up to 99.8%) at room temperature
The crystal structures of 2 other aminonaphthol catalysts, which gave lower enantioselectivities, were determined by x-ray anal.
IT 361554-36-1P
RL: CAT (Catalyst use); SPN (Synthetic preparation); PREP (Preparation); USES (Uses)
(preparation and use of aminonaphthols as catalysts in enantioselective addition of diethylzinc to benzaldehydes)
RN 361554-36-1 CAPLUS
CN 2-Naphthalenol, 1-[(S)-[methyl[(1S)-1-phenylethyl]amino]phenylmethyl]- (CA INDEX NAME)

Absolute stereochemistry.

CAS ONLINE PRINTOUT



RE.CNT 28 THERE ARE 28 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

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